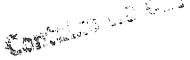
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Susan L. Schmitt Supervisor, Product Registration & Toxicology

February 22, 1995

Document Processing Center (7407) Room L-100 Office of Pollution Prevention and Toxics **Environmental Protection Agency** 401 M Street, SW Washington, DC 20460

ATTN: 8(d) Health and Safety Data Reporting

Dear Sir or Madam:

In accordance with TSCA Section 8(d) and the recent final rule published in 59 FR60716, Amoco Corporation, on behalf of its Petroleum Products Sector, is herein submitting health and safety studies on ethyl tertiary butyl ether (CAS # 637-92-3) and tertiary amyl methyl ether (CAS 994-05-8).

The following studies are included:

Sum & Schmutt

86950000144 4- week inhalation toxicity in rats Ethyl tert-butyl ether:

Acute inhalation toxicity in rats 145 Acute dermal toxicity in rabbits

4-week inhalation toxicity in rats 7 147 tert-Amyl methyl ether:

Acute inhalation toxicity in rats 148 Acute dermal toxicity in rabbits 1149 150 Acute oral toxicity in rats

Abbreviated acute dermal irritancy/corrosivity in rabbits 1151

If you have any questions or need further information, please contact Sharon S. Ziegel (312/856-6166) of my staff.

Sincerely,

86950000144 TO 86950000151

SLS/SSZ

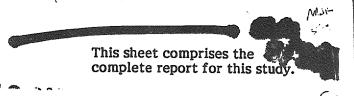
Amoco Corporation

Environment, Health & Safety

200 East Randolph Drive Chicago, Illinois 60601-7125 372-856-5792

CERTIFIED MAIL RETURN RECEIPT REQUESTED

:)



ABBREVIATED ACUTE DERMAL IRRITANCY / CORROSIVITY STUDY OF TERTIARY AMYL METHYL ETHER (TAME) IN RABBITS

Study No. 1649 Test Article No. 691

Treatment Initiation Date: February 26, 1991 Biophase Termination Date: March 1, 1991 Amoco I.D. Number: LF-9128

SUMMARY

Tertiary Amyl Methyl Ether (TAME) was applied for 4 hours to the shaved backs of three rabbits at a dose of 0.5 ml. Following unwrapping, the test sites were rinsed with approximately 1 ml of light mineral oil. All test sites were examined for signs of dermal irritation (i.e., edema, erythema and/or eschar formation) and corrosivity (i.e., ulceration and/or necrosis) 30-60 minutes, 24, 48 and 72 hours following removal of the wrappings.

The irritation score ranged from 4.3/8.0 at 30-60 minutes to 5.0/8.0 at 24 hours following unwrapping. The Primary Dermal Irritation Score for Tertiary Amyl Methyl Ether (TAME) was 4.7.

No signs of dermal corrosivity were seen in any rabbit during the study.

STUDY PARTICIPANTS:

Christopher Lord, Experimentalist

This summary was prepared by J. Fred Krueger, M.S., Technical Editor.

86950000151

Director, Amoco Toxicology Program

Life Sciences Research

: 1

William Johnson Ph.D., D.A.B.T.

Study Director

Life Sciences Research

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